

590  
1009

#2.

OIIPE

## RAW SEQUENCE LISTING

DATE: 10/05/2001

PATENT APPLICATION: US/09/954,950

TIME: 15:24:02

Input Set : A:\35718-238971 Seq Listing.txt

Output Set: N:\CRF3\10052001\I954950.raw

4 <110> APPLICANT: Mahajan, Pramod B.  
6 <120> TITLE OF INVENTION: Rice MLH1 Ortholog and Uses Thereof  
9 <130> FILE REFERENCE: 35718/238971  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/954,950  
C--> 11 <141> CURRENT FILING DATE: 2001-09-18  
11 <150> PRIOR APPLICATION NUMBER: 60/233,124  
12 <151> PRIOR FILING DATE: 2000-09-18  
14 <160> NUMBER OF SEQ ID NOS: 4  
16 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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19 <211> LENGTH: 2501  
20 <212> TYPE: DNA  
21 <213> ORGANISM: Oryza sativa  
23 <220> FEATURE:  
24 <221> NAME/KEY: CDS  
25 <222> LOCATION: (121)...(2295)  
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29 tcgctgccct cgcctcaccg ccggccaacc gccgtgacga gagatcgagc agggcggggc 120  
30 atg gac gag cct tcg ccg cgc gga ggt ggg tgc gcc ggg gag ccg ccc 168  
31 Met Asp Glu Pro Ser Pro Arg Gly Gly Gly Cys Ala Gly Glu Pro Pro  
32 1 5 10 15  
34 cgc atc cgg agg ttg gag gag tcg gtg gtg aac cgc atc gcg gcg ggg 216  
35 Arg Ile Arg Arg Leu Glu Glu Ser Val Val Asn Arg Ile Ala Ala Gly  
36 20 25 30  
38 gag gtg atc cag cgg ccg tcg tcg gcg gtg aag gag ctc atc gag aac 264  
39 Glu Val Ile Gln Arg Pro Ser Ser Ala Val Lys Glu Leu Ile Glu Asn  
40 35 40 45  
42 agc ctc gac gct ggc gcc tcc agc gtc tcc gtt gcg gtg aag gac ggt 312  
43 Ser Leu Asp Ala Gly Ala Ser Ser Val Ser Val Ala Val Lys Asp Gly  
44 50 55 60  
46 ggc ctc aag ctc atc cag gtc tcc gat gac ggc cat ggc atc agg ttt 360  
47 Gly Leu Lys Leu Ile Gln Val Ser Asp Asp Gly His Gly Ile Arg Phe  
48 65 70 75 80  
50 gag gat ttg gca ata ttg tgc gaa agg cat act acc tca aag tta tct 408  
51 Glu Asp Leu Ala Ile Leu Cys Glu Arg His Thr Thr Ser Lys Leu Ser  
52 85 90 95  
54 gca tac gag gat ctg cag acc ata aaa tcg atg ggg ttc aga ggg gag 456  
55 Ala Tyr Glu Asp Leu Gln Thr Ile Lys Ser Met Gly Phe Arg Gly Glu  
56 100 105 110  
58 gct ttg gct agt atg act tat gtt ggc cat gtt acc gtg aca acg ata 504  
59 Ala Leu Ala Ser Met Thr Tyr Val Gly His Val Thr Val Thr Thr Ile  
60 115 120 125  
62 aca gaa ggc caa ttg cac ggc tac agg gtt tct tac aga gat ggt gta 552  
63 Thr Glu Gly Gln Leu His Gly Tyr Arg Val Ser Tyr Arg Asp Gly Val  
64 130 135 140  
66 atg gag aat gag cct aag cct tgc gct gcg gtg aaa gga act caa gtc 600

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 67  | Met | Glu | Asn | Glu | Pro | Lys | Pro | Cys | Ala | Ala | Val | Lys | Gly | Thr | Gln | Val |      |
| 68  | 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |      |
| 70  | atg | gtt | gaa | aat | cta | ttt | tac | aac | atg | gta | gcc | cgc | aag | aaa | aca | ttg | 648  |
| 71  | Met | Val | Glu | Asn | Leu | Phe | Tyr | Asn | Met | Val | Ala | Arg | Lys | Lys | Thr | Leu |      |
| 72  |     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |      |
| 74  | cag | aac | tcc | aat | gat | gac | tac | ccc | aag | atc | gta | gac | ttc | atc | agt | cgg | 696  |
| 75  | Gln | Asn | Ser | Asn | Asp | Asp | Tyr | Pro | Lys | Ile | Val | Asp | Phe | Ile | Ser | Arg |      |
| 76  |     |     |     | 180 |     |     |     |     | 185 |     |     |     | 190 |     |     |     |      |
| 78  | ttt | gca | gtc | cat | cac | atc | aac | gtt | acc | ttc | tct | tgc | aga | aag | cat | gga | 744  |
| 79  | Phe | Ala | Val | His | His | Ile | Asn | Val | Thr | Phe | Ser | Cys | Arg | Lys | His | Gly |      |
| 80  |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |      |
| 82  | gcc | aat | aga | gca | gat | gtt | cat | agt | gca | agt | aca | tcc | tca | agg | tta | gat | 792  |
| 83  | Ala | Asn | Arg | Ala | Asp | Val | His | Ser | Ala | Ser | Thr | Ser | Ser | Arg | Leu | Asp |      |
| 84  |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |      |
| 86  | gct | atc | agg | agt | gtc | tat | ggg | gct | tct | gtc | gtt | cgt | gat | ctc | ata | gaa | 840  |
| 87  | Ala | Ile | Arg | Ser | Val | Tyr | Gly | Ala | Ser | Val | Val | Arg | Asp | Leu | Ile | Glu |      |
| 88  | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |      |
| 90  | ata | aag | gtt | tca | tat | gag | gat | gct | gca | gat | tca | atc | ttc | aag | atg | gat | 888  |
| 91  | Ile | Lys | Val | Ser | Tyr | Glu | Asp | Ala | Ala | Asp | Ser | Ile | Phe | Lys | Met | Asp |      |
| 92  |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |      |
| 94  | ggt | tac | atc | tca | aat | gca | aat | tat | gtg | gca | aag | aag | att | aca | atg | att | 936  |
| 95  | Gly | Tyr | Ile | Ser | Asn | Ala | Asn | Tyr | Val | Ala | Lys | Lys | Ile | Thr | Met | Ile |      |
| 96  |     |     | 260 |     |     | 265 |     |     |     |     |     | 270 |     |     |     |     |      |
| 98  | ctt | ttc | ata | aat | gat | agg | ctt | gta | gac | tgt | act | gct | ttg | aaa | aga | gct | 984  |
| 99  | Leu | Phe | Ile | Asn | Asp | Arg | Leu | Val | Asp | Cys | Thr | Ala | Leu | Lys | Arg | Ala |      |
| 100 |     |     | 275 |     |     | 280 |     |     |     |     |     | 285 |     |     |     |     |      |
| 102 | att | gaa | ttt | gtg | tac | tct | gca | aca | ttg | cct | caa | gca | tcc | aaa | cct | ttc | 1032 |
| 103 | Ile | Glu | Phe | Val | Tyr | Ser | Ala | Thr | Leu | Pro | Gln | Ala | Ser | Lys | Pro | Phe |      |
| 104 |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |      |
| 106 | ata | tac | atg | tcc | ata | cat | ctt | cca | tca | gaa | cac | gtg | gat | gtt | aat | ata | 1080 |
| 107 | Ile | Tyr | Met | Ser | Ile | His | Leu | Pro | Ser | Glu | His | Val | Asp | Val | Asn | Ile |      |
| 108 | 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |      |
| 110 | cac | cca | acc | aag | aaa | gag | gtt | agc | ctt | ttg | aat | caa | gag | cgt | att | att | 1128 |
| 111 | His | Pro | Thr | Lys | Lys | Glu | Val | Ser | Leu | Leu | Asn | Gln | Glu | Arg | Ile | Ile |      |
| 112 |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |      |
| 115 | gaa | aca | ata | aga | aat | gct | att | gag | gaa | aaa | ctg | atg | aat | tct | aat | aca | 1176 |
| 116 | Glu | Thr | Ile | Arg | Asn | Ala | Ile | Glu | Glu | Lys | Leu | Met | Asn | Ser | Asn | Thr |      |
| 117 |     |     | 340 |     |     |     |     | 345 |     |     |     | 350 |     |     |     |     |      |
| 119 | acc | agg | ata | ttc | caa | act | cag | gca | tta | aac | tta | tca | ggg | att | gct | caa | 1224 |
| 120 | Thr | Arg | Ile | Phe | Gln | Thr | Gln | Ala | Leu | Asn | Leu | Ser | Gly | Ile | Ala | Gln |      |
| 121 |     |     | 355 |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |      |
| 123 | gct | aac | cca | caa | aag | gat | aag | gtt | tct | gag | gcc | agt | atg | ggt | tct | gga | 1272 |
| 124 | Ala | Asn | Pro | Gln | Lys | Asp | Lys | Val | Ser | Glu | Ala | Ser | Met | Gly | Ser | Gly |      |
| 125 |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |     |      |
| 127 | aca | aaa | tct | caa | aaa | att | cct | gtg | agc | caa | atg | gtc | aga | aca | gat | cca | 1320 |
| 128 | Thr | Lys | Ser | Gln | Lys | Ile | Pro | Val | Ser | Gln | Met | Val | Arg | Thr | Asp | Pro |      |
| 129 | 385 |     |     |     | 390 |     |     |     | 395 |     |     |     |     |     | 400 |     |      |
| 131 | cgc | aat | cca | tct | gga | aga | ttg | cac | acc | tac | tgg | cac | ggg | caa | tct | tca | 1368 |
| 132 | Arg | Asn | Pro | Ser | Gly | Arg | Leu | His | Thr | Tyr | Trp | His | Gly | Gln | Ser | Ser |      |

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|-----|-----------------------------------------------------------------|-----|-----|-----|-----|-----|------|
| 133 |                                                                 | 405 |     | 410 |     | 415 |      |
| 135 | aat ctt gaa aag aaa ttt gat ctt gta tct gta aga aat gtt gta aga |     |     |     |     |     | 1416 |
| 136 | Asn Leu Glu Lys Lys Phe Asp Leu Val Ser Val Arg Asn Val Val Arg |     |     |     |     |     |      |
| 137 |                                                                 | 420 |     | 425 |     | 430 |      |
| 139 | tca agg aga aac caa aaa gat gct ggt gat ttg tca agc cgt cat gag |     |     |     |     |     | 1464 |
| 140 | Ser Arg Arg Asn Gln Lys Asp Ala Gly Asp Leu Ser Ser Arg His Glu |     |     |     |     |     |      |
| 141 |                                                                 | 435 |     | 440 |     | 445 |      |
| 143 | ctc ctt gtg gaa ata gat tct agc ttc cat cct ggc ctt ttg gac att |     |     |     |     |     | 1512 |
| 144 | Leu Leu Val Glu Ile Asp Ser Ser Phe His Pro Gly Leu Leu Asp Ile |     |     |     |     |     |      |
| 145 |                                                                 | 450 |     | 455 |     | 460 |      |
| 147 | gtc aag aac tgc aca tat gtt gga ctt gcc gat gaa gcc ttt gct ttg |     |     |     |     |     | 1560 |
| 148 | Val Lys Asn Cys Thr Tyr Val Gly Leu Ala Asp Glu Ala Phe Ala Leu |     |     |     |     |     |      |
| 149 | 465                                                             |     | 470 |     | 475 | 480 |      |
| 151 | ata caa cac aat acc cgc tta tac ctt gta aat gtg gta aat att agt |     |     |     |     |     | 1608 |
| 152 | Ile Gln His Asn Thr Arg Leu Tyr Leu Val Asn Val Val Asn Ile Ser |     |     |     |     |     |      |
| 153 |                                                                 | 485 |     | 490 |     | 495 |      |
| 155 | aaa gaa ctt atg tac cag caa gct ttg tgc cgt ttt ggg aac ttc aat |     |     |     |     |     | 1656 |
| 156 | Lys Glu Leu Met Tyr Gln Gln Ala Leu Cys Arg Phe Gly Asn Phe Asn |     |     |     |     |     |      |
| 157 |                                                                 | 500 |     | 505 |     | 510 |      |
| 159 | gct att cag ctc agt gaa cca gct cca ctt cag gag ttg ctg gtg atg |     |     |     |     |     | 1704 |
| 160 | Ala Ile Gln Leu Ser Glu Pro Ala Pro Leu Gln Glu Leu Leu Val Met |     |     |     |     |     |      |
| 161 |                                                                 | 515 |     | 520 |     | 525 |      |
| 163 | gca ctg aaa gac gat gaa ttg atg agt gat gaa aag gat gat gag aaa |     |     |     |     |     | 1752 |
| 164 | Ala Leu Lys Asp Asp Glu Leu Met Ser Asp Glu Lys Asp Asp Glu Lys |     |     |     |     |     |      |
| 165 |                                                                 | 530 |     | 535 |     | 540 |      |
| 167 | ctg gag att gca gaa gta aac act gag ata cta aaa gaa aat gct gag |     |     |     |     |     | 1800 |
| 168 | Leu Glu Ile Ala Glu Val Asn Thr Glu Ile Leu Lys Glu Asn Ala Glu |     |     |     |     |     |      |
| 169 | 545                                                             |     | 550 |     | 555 | 560 |      |
| 172 | atg att aat gag tac ttt tct att cac att gat caa gat ggc aaa ttg |     |     |     |     |     | 1848 |
| 173 | Met Ile Asn Glu Tyr Phe Ser Ile His Ile Asp Gln Asp Gly Lys Leu |     |     |     |     |     |      |
| 174 |                                                                 | 565 |     | 570 |     | 575 |      |
| 176 | aca aga ctt cct gtt gta ctg gac cag tac acc cct gat atg gac cgt |     |     |     |     |     | 1896 |
| 177 | Thr Arg Leu Pro Val Val Leu Asp Gln Tyr Thr Pro Asp Met Asp Arg |     |     |     |     |     |      |
| 178 |                                                                 | 580 |     | 585 |     | 590 |      |
| 180 | ctt cca gaa ttt gtg ttg gct tta gga aat gat gtt act tgg gat gac |     |     |     |     |     | 1944 |
| 181 | Leu Pro Glu Phe Val Leu Ala Leu Gly Asn Asp Val Thr Trp Asp Asp |     |     |     |     |     |      |
| 182 |                                                                 | 595 |     | 600 |     | 605 |      |
| 184 | gag aaa gag tgc ttc aga aca gta gct tct gct gta gga aac ttc tat |     |     |     |     |     | 1992 |
| 185 | Glu Lys Glu Cys Phe Arg Thr Val Ala Ser Ala Val Gly Asn Phe Tyr |     |     |     |     |     |      |
| 186 |                                                                 | 610 |     | 615 |     | 620 |      |
| 188 | gca ctt cat ccc cca atc ctt cca aat cca tct ggg aat ggc att cat |     |     |     |     |     | 2040 |
| 189 | Ala Leu His Pro Pro Ile Leu Pro Asn Pro Ser Gly Asn Gly Ile His |     |     |     |     |     |      |
| 190 | 625                                                             |     | 630 |     | 635 | 640 |      |
| 192 | tta tac aag aaa aat aga gat tca atg gct gat gaa cat gct gag aat |     |     |     |     |     | 2088 |
| 193 | Leu Tyr Lys Lys Asn Arg Asp Ser Met Ala Asp Glu His Ala Glu Asn |     |     |     |     |     |      |
| 194 |                                                                 | 645 |     | 650 |     | 655 |      |
| 196 | gat cta ata tca gat gaa aat gac gtt gat caa gaa ctt ctt gcg gaa |     |     |     |     |     | 2136 |
| 197 | Asp Leu Ile Ser Asp Glu Asn Asp Val Asp Gln Glu Leu Leu Ala Glu |     |     |     |     |     |      |
| 198 |                                                                 | 660 |     | 665 |     | 670 |      |

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200 gca gaa gca gca tgg gcc caa cgt gag tgg acc att cag cat gtc ttg      2184
201 Ala Glu Ala Ala Trp Ala Gln Arg Glu Trp Thr Ile Gln His Val Leu
202          675          680          685
204 ttt cca tcc atg cga ctt ttc ctc aag ccc ccg aag tca atg gca aca      2232
205 Phe Pro Ser Met Arg Leu Phe Leu Lys Pro Pro Lys Ser Met Ala Thr
206          690          695          700
208 gat gga acg ttt gtg cag gtt gct tcc ttg gag aaa ctc tac aag att      2280
209 Asp Gly Thr Phe Val Gln Val Ala Ser Leu Glu Lys Leu Tyr Lys Ile
210 705          710          715          720
212 ttt gaa agg tgt tag ctcataagtg agaaaatgaa ggcagagtaa gatcatgatt      2335
213 Phe Glu Arg Cys *
216 catggagtgt ttttgaaaat gtgtataatt tcaccgtatt atgtactttg atagtgtctg      2395
217 tagaaactga agaaagaaag atggctttac ttctgaattg aaagttaacg atgccagcaa      2455
218 ttgtatatc tgatcaacca aaaaaaaaaa aaaaaaaaaa aaaaaa      2501
220 <210> SEQ ID NO: 2
221 <211> LENGTH: 724
222 <212> TYPE: PRT
223 <213> ORGANISM: Oryza sativa
225 <400> SEQUENCE: 2
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227 1          5          10          15
228 Arg Ile Arg Arg Leu Glu Glu Ser Val Val Asn Arg Ile Ala Ala Gly
229          20          25          30
230 Glu Val Ile Gln Arg Pro Ser Ser Ala Val Lys Glu Leu Ile Glu Asn
231          35          40          45
232 Ser Leu Asp Ala Gly Ala Ser Ser Val Ser Val Ala Val Lys Asp Gly
233          50          55          60
234 Gly Leu Lys Leu Ile Gln Val Ser Asp Asp Gly His Gly Ile Arg Phe
235 65          70          75          80
236 Glu Asp Leu Ala Ile Leu Cys Glu Arg His Thr Thr Ser Lys Leu Ser
237          85          90          95
238 Ala Tyr Glu Asp Leu Gln Thr Ile Lys Ser Met Gly Phe Arg Gly Glu
239          100          105          110
240 Ala Leu Ala Ser Met Thr Tyr Val Gly His Val Thr Val Thr Thr Ile
241          115          120          125
242 Thr Glu Gly Gln Leu His Gly Tyr Arg Val Ser Tyr Arg Asp Gly Val
243          130          135          140
244 Met Glu Asn Glu Pro Lys Pro Cys Ala Ala Val Lys Gly Thr Gln Val
245 145          150          155          160
246 Met Val Glu Asn Leu Phe Tyr Asn Met Val Ala Arg Lys Lys Thr Leu
247          165          170          175
248 Gln Asn Ser Asn Asp Asp Tyr Pro Lys Ile Val Asp Phe Ile Ser Arg
249          180          185          190
250 Phe Ala Val His His Ile Asn Val Thr Phe Ser Cys Arg Lys His Gly
251          195          200          205
252 Ala Asn Arg Ala Asp Val His Ser Ala Ser Thr Ser Ser Arg Leu Asp
253 210          215          220
254 Ala Ile Arg Ser Val Tyr Gly Ala Ser Val Val Arg Asp Leu Ile Glu
255 225          230          235          240

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256 Ile Lys Val Ser Tyr Glu Asp Ala Ala Asp Ser Ile Phe Lys Met Asp
257           245           250           255
258 Gly Tyr Ile Ser Asn Ala Asn Tyr Val Ala Lys Lys Ile Thr Met Ile
259           260           265           270
260 Leu Phe Ile Asn Asp Arg Leu Val Asp Cys Thr Ala Leu Lys Arg Ala
261           275           280           285
262 Ile Glu Phe Val Tyr Ser Ala Thr Leu Pro Gln Ala Ser Lys Pro Phe
263           290           295           300
264 Ile Tyr Met Ser Ile His Leu Pro Ser Glu His Val Asp Val Asn Ile
265 305           310           315           320
266 His Pro Thr Lys Lys Glu Val Ser Leu Leu Asn Gln Glu Arg Ile Ile
267           325           330           335
268 Glu Thr Ile Arg Asn Ala Ile Glu Glu Lys Leu Met Asn Ser Asn Thr
269           340           345           350
270 Thr Arg Ile Phe Gln Thr Gln Ala Leu Asn Leu Ser Gly Ile Ala Gln
271           355           360           365
272 Ala Asn Pro Gln Lys Asp Lys Val Ser Glu Ala Ser Met Gly Ser Gly
273           370           375           380
274 Thr Lys Ser Gln Lys Ile Pro Val Ser Gln Met Val Arg Thr Asp Pro
275 385           390           395           400
276 Arg Asn Pro Ser Gly Arg Leu His Thr Tyr Trp His Gly Gln Ser Ser
277           405           410           415
278 Asn Leu Glu Lys Lys Phe Asp Leu Val Ser Val Arg Asn Val Val Arg
279           420           425           430
280 Ser Arg Arg Asn Gln Lys Asp Ala Gly Asp Leu Ser Ser Arg His Glu
281           435           440           445
282 Leu Leu Val Glu Ile Asp Ser Ser Phe His Pro Gly Leu Leu Asp Ile
283           450           455           460
284 Val Lys Asn Cys Thr Tyr Val Gly Leu Ala Asp Glu Ala Phe Ala Leu
285 465           470           475           480
286 Ile Gln His Asn Thr Arg Leu Tyr Leu Val Asn Val Val Asn Ile Ser
287           485           490           495
288 Lys Glu Leu Met Tyr Gln Gln Ala Leu Cys Arg Phe Gly Asn Phe Asn
289           500           505           510
290 Ala Ile Gln Leu Ser Glu Pro Ala Pro Leu Gln Glu Leu Leu Val Met
291           515           520           525
292 Ala Leu Lys Asp Asp Glu Leu Met Ser Asp Glu Lys Asp Asp Glu Lys
293           530           535           540
294 Leu Glu Ile Ala Glu Val Asn Thr Glu Ile Leu Lys Glu Asn Ala Glu
295 545           550           555           560
296 Met Ile Asn Glu Tyr Phe Ser Ile His Ile Asp Gln Asp Gly Lys Leu
297           565           570           575
298 Thr Arg Leu Pro Val Val Leu Asp Gln Tyr Thr Pro Asp Met Asp Arg
299           580           585           590
300 Leu Pro Glu Phe Val Leu Ala Leu Gly Asn Asp Val Thr Trp Asp Asp
301           595           600           605
302 Glu Lys Glu Cys Phe Arg Thr Val Ala Ser Ala Val Gly Asn Phe Tyr
303           610           615           620
304 Ala Leu His Pro Pro Ile Leu Pro Asn Pro Ser Gly Asn Gly Ile His

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VERIFICATION SUMMARY

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Input Set : A:\35718-238971 Seq Listing.txt

Output Set: N:\CRF3\10052001\I954950.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date